

Note: This draft dated 12 May 2004 prepared by  
DSCC-VAI, has not been approved and is subject to modification.  
DO NOT USE FOR ACQUISITION PURPOSES.  
Project Number: 5935-4665 .

METRIC

MIL-DTL-38999/33D  
**NOT DATED**  
SUPERSEDING  
MIL-DTL-38999/33C  
AMENDMENT 1  
7 February 2003

## DETAIL SPECIFICATION SHEET

### CONNECTOR, ELECTRICAL CIRCULAR, COVER, PROTECTIVE, RECEPTACLE, SERIES III, METRIC

This specification is approved for use by all Departments  
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein  
shall consist of this specification and MIL-DTL-38999.

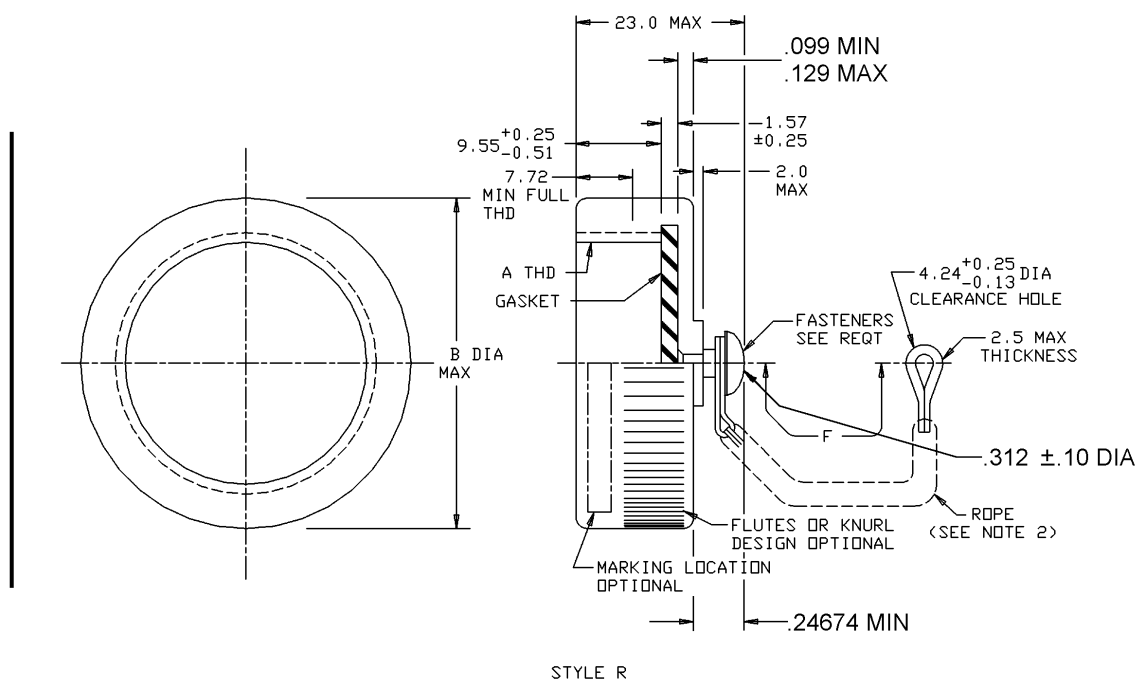
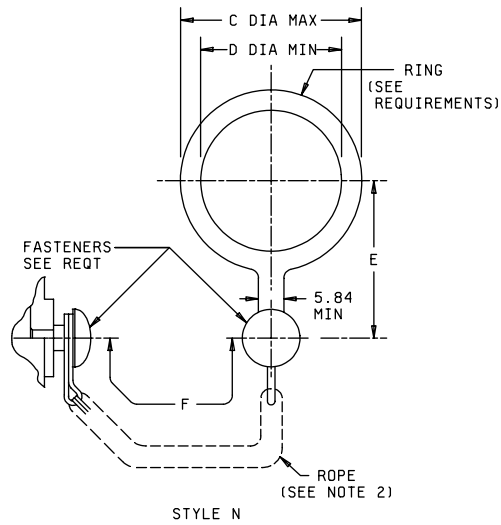


FIGURE 1. Protective cover, receptacle, all classes.



Dimensions						
Shell size	A THD-2B	B max dia	C dia max	D min dia	E	F + 13.0 - 7.0
9	.6250-0.1P-0.3L-TS	23.0	27.0	17.64	21.00 18.00	127.00
11	.7500-0.1P-0.3L-TS	28.0	32.0	21.97	22.50 18.50	127.00
13	.8750-0.1P-0.3L-TS	31.0	37.0	25.12	25.00 23.50	127.00
15	1.0000-0.1P-0.3L-TS	32.0	40.0	29.92	31.00 25.00	127.00
17	1.1875-0.1P-0.3L-TS	37.0	44.0	32.00	32.50 26.50	127.00
19	1.2500-0.1P-0.3L-TS	39.0	46.0	36.27	34.00 28.00	127.00
21	1.3750-0.1P-0.3L-TS	42.0	49.0	38.25	35.50 30.00	127.00
23	1.5000-0.1P-0.3L-TS	45.0	54.0	42.62	37.50 31.50	127.00
25	1.6250-0.1P-0.3L-TS	49.0	56.0	44.45	39.00 33.00	127.00

## NOTES:

1. Dimensions are in millimeters, except "A threads" which are in inches.
2. Method of attachment to cover and or ring is optional.

FIGURE 1. Protective cover, plug, all classes - Continued

## REQUIREMENTS:

Dimensions and configuration: See figure 1.

## Material:

Cover - Classes C, F, G, R, W and X: Impact extruded or machined aluminum alloy.  
Classes H, K, N, S and Y: Corrosion resistant steel.  
Classes J and M: High performance resin in accordance with MIL-DTL-38999.  
(Class F is inactive for new design.)

Gasket - Silicone elastomer.

Ring - Corrosion resistant steel, passivated, 1.020 maximum thickness.

Rope - Insulated stainless steel, passivated.  
Insulation shall withstand 200°C environment.

Fastener - Stainless steel, passivated.  
Option: Aluminum integral to cover.

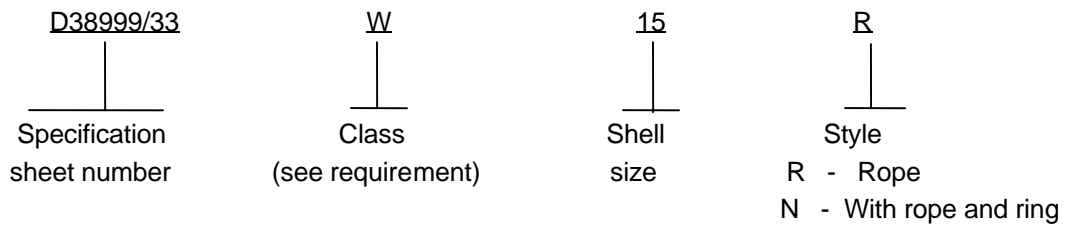
Mating connectors: MIL-DTL-38999, series III.

Gasket shall be bonded to cover, or mechanically retained.

Rope shall rotate freely on fastener.

Fastener tensile strength: Both axial and longitudinal directions shall be 25 pounds. The load shall be applied to the end of the rope.

Part or Identifying Number (PIN) example:



## Specification restrictions:

Navy	Army	Air Force
Entire specification sheet inactive for new design	For ground equipment only.	

Qualification:

Examination of product.  
Mating and unmating forces.  
Moisture resistance.  
Salt spray (corrosion).  
Fastener tensile strength (see requirement).  
Altitude immersion.

For classes J and M also perform temperature cycling and hydrolytic stability.

CONCLUDING MATERIAL

Custodians:

Army - CR  
Navy - AS  
Air Force – 11  
DLA - CC

Preparing activity:

DLA - CC

(Project 5935-4665-000)

Review activities:

Army - MI  
Navy - EC, MC, OS  
Air Force - 19, 99

NOTE: The activities listed above were interested in this document as of the date of this Document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://www.dodssp.daps.mil>.